

# Secondary Schools Learning programme London, 2025–2026

## Under Pressure (KS3)

onsite

Why don't pilots die? Through taking part in experiments and getting to grips with real flight equipment, your students will discover the potentially lethal effects of changing air pressure, examine heat transfers and their effects on flight crews and explore how pilots can train their bodies to fight high G-Forces.

Curriculum links: Science - Atmospheric pressure and pressure in liquids; Describing forces and motion; Heat transfers

## Science Show (KS3)

onsite – suitable for large groups

Ever wondered how aircraft fly and just how we can survive up high? Through experiments and demonstrations, find out about air pressure, the forces of flight and how Newton's third law of motion is applied in aviation in this fast-paced Science Show.

Curriculum links: Science

## Flight Factory Challenge (KS3)

onsite

Join us for an aircraft construction challenge. Taking inspiration from the aircraft on site, students work in teams to design and build sections of aircraft. These structures are then tested to destruction – which team will win? Curriculum links: Design and Technology

## Design to Survive (KS3)

onsite

Can you help aircrew to evade capture by designing practical survival equipment? Your students will learn the experiences of RAF Bomber Command aircrew, analyse deficiencies in clothing and equipment issued to them at the start of the Second World War and apply Design Thinking methods to develop creative solutions that address those challenges. They get to explore innovative MI6 Escape and Evasion designs through real objects and photographs and develop practical equipment for their survival in our historical design challenge.

Curriculum links: Design & Technology and History

## Flying Colours (KS3/4)

onsite or at your school  
suitable for large groups

Explore the vital contributions of Black, Asian and ethnically diverse men and women who have served in the RAF. Through a range of media, discover some of their inspirational stories from the First World War, Second World War and through to today. Students will consider motivations for joining up, concepts of bravery and instances of racism. They will be involved in thinking through and celebrating the many roles and people that make up the Royal Air Force.

Curriculum links: History and Citizenship



## Pilots of the Caribbean (KS3/4)

online

A dramatic performance streamed to your classroom, which shares the stories of African and Caribbean people who volunteered to serve in the Royal Air Force during the two world wars, and those who serve today. Shining a light on the vital contributions of young Black men and women, audiences discover what made these brave volunteers fight for the country that had enslaved

their ancestors. In the live section which follows the filmed performance, we explore whether a lack of diversity in popular British Culture has written people of African and Caribbean descent out of history, and why this might be.

Curriculum links: History and Citizenship

## Hands-on History (KS3/4) First World War or the Battle of Britain

onsite

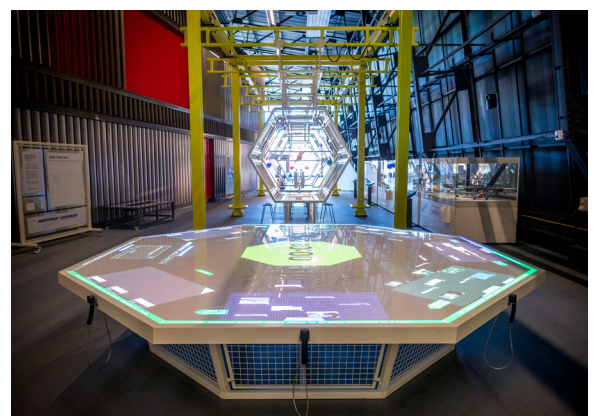
Immerse your students in a key moment of British History. Select from the First World War or focus in on the Battle of Britain. Get hands-on with objects, uniforms and clothing and analyse historical documents to piece together stories from the past.

Curriculum links: History

## Debate Space (Upper KS3/4/5)

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In our purpose-built Digital Interactive Debate Space, we will help your students find out about, and debate, key issues on one of two topics: AI and Drones, or the Environment. Your students will debate these important topics using a range of sources to formulate their arguments. Which team will come out on top in the all-important final vote?



### The Environment:

Can individuals make a difference in fighting Climate Change? Can aviation be sustainable and are synthetic fuels the solution?

### AI and Drones:

Should drones be allowed in our skies? Should we be worried about artificial intelligence? Should machines with increasing levels of automation and autonomy be used in combat?

Curriculum links: Debate skills, Artificial Intelligence, Robotics and Drones, The Environment and Climate Change.

### Fiona Banner Study Day (KS4/5)

onsite

#### Study Day

This Study Day is focused on The Bastard Word Studies, a collection of 'aeroplane alphabet' drawings by contemporary artist Fiona Banner. On the day, students will get up-close and personal with artwork, gain an insight into Banner's artistic practice and improve their drawing skills through a range of activities. The session is led by an Arts specialist who will guide students through all of the activities. Students will also meet our curator of Fine Art to learn about how an art exhibition is put together, before putting their own curatorial skills to the test. All materials are provided, but students are welcome to bring their own sketchbooks and drawing materials if they wish.

Curriculum links: Art and History of Art  
Extra Info: Session runs from 10.30am-2.30pm with a break for lunch, minimum group size of 10, costs £10 per student (teachers free)



#### Study Morning

This Study Morning is a condensed version of the above. Students will gain an insight into Fiona Banner's artistic practice and improve their drawing skills through a range of activities. At the end of the guided session, teachers and students will receive resources with activity ideas to take the learning further.

Curriculum links: Art and History of Art  
Extra Info: Session runs from 10.30am-12.00pm, minimum group size of 10, costs £6 per student (teachers free)

### War in the Air 1914-1918 Study Day (KS5)

onsite

Our Study Day examines the topic of the War in the Air, 1914-18 and looks in depth at all aspects of the First World War as it was fought, for the first time in the history of warfare, in the air.

It addresses the key enquiry questions of the Edexcel Scheme of Work and will bring the study of the topic to life for students, illustrating it with a variety of sources including original aircraft, primary source material, artworks and photographs, first-hand accounts, case displayed artefacts and handling examples, audio accounts and films as well as looking at the perspectives of historians.

On the day, students get to see the aircraft and equipment used in the air war and will analyse written source material to understand the work that was done operationally. They will experience first-hand accounts that give vivid impressions of the difficulties and dangers faced and will be able to assess what could be achieved with the technology of the day. Students conclude their day with the opportunity

to present their findings to the rest of the group and by using their research to put their case in a group debate.

Curriculum links: History A Level - Edexcel

Extra Info: Session runs from 10.30am – 2.30pm with a break for lunch, minimum group size of 10, costs £10 per student (teachers free)

### The RAF Museum as a Business (KS5)

onsite or online

How does the RAF Museum run as a business? How do we attract visitors to the Museum? What factors affect our business? Use our Museum as a case study to support the learning objectives of A Level Business.

Curriculum links: Business

